INDEX OF AUTHORS AND PAPERS

Aertsens, M., see Garcia, A.L. **143A** (1987) 535
Aukrust, T., see Støvneng, J.A. **143A** (1987) 40

Barton, N., see Rouhani, S. **143A** (1987) 220
Bedeaux, D., see Wind, M.M. **143A** (1987) 164
Beenakker, J.J.M., see Ten Bosch, B.I.M. **143A** (1987) 261
Ben Saad, K., Fekih Romdhane, F. and Gharbi, A., A line shape induced by unlike-particle pairs in gas mixtures **143A** (1987) 210
Bobbert, P.A., see Wind, M.M. **143A** (1987) 164
Braun, E. and Mello, P.A., The correlation function for a quantum oscillator in a low-temperature heat bath **143A** (1987) 547

Calado, J.C.G., Mardolcar, U.V., Nieto de Castro, C.A., Roder, H.M. and Wakeham, W.A., The thermal conductivity of liquid argon **143A** (1987) 314
Coniglio, A., see Stauffer, D. **143A** (1987) 326
Coveney, P.V., Subdynamics in the time-dependent formalism **143A** (1987) 123
Coveney, P.V., Statistical mechanics of a large dynamical system interacting with an external time-dependent field: generalised correlation subdynamics **143A** (1987) 507
Czerwonko, J., Field-transverse spin response of degenerate normal and neutral Fermi liquids in dc magnetic fields **143A** (1987) 414

Ding, E.J. and Hauge, E.H., The dynamics approach to the wetting transition with short range forces **143A** (1987) 54
Dixon, J.M., see Tuszyński, J.A. **143A** (1987) 331

Enomoto, Y., see Tokuyama, M. **143A** (1987) 183

Fekih Romdhane, F., see Ben Saad, K. **143A** (1987) 210
Felderhof, B.U., see Mattern, K. **143A** (1987) 1
Felderhof, B.U., see Mattern, K. **143A** (1987) 21

Garcia, A.L., Van Den Broeck, C., Aertsens, M. and Serneels, R., A Monte Carlo simulation of coagulation **143A** (1987) 535
Gharbi, A., see Ben Saad, K. **143A** (1987) 210

Hauge, E.H., see Støvneng, J.A. **143A** (1987) 40
Hauge, E.H., see Ding, E.J. **143A** (1987) 54
Hauge, E.H., see Piasecki, J. **143A** (1987) 87
Hermans, L.J.F., see Van der Tol, J.J.G.M. **143A** (1987) 253

Kawasaki, K., see Tokuyama, M. **143A** (1987) 183

INDEX OF AUTHORS AND PAPERS

Aertsens, M., see Garcia, A.L. **143A** (1987) 535
Aukrust, T., see Støvneng, J.A. **143A** (1987) 40

Barton, N., see Rouhani, S. **143A** (1987) 220
Bedeaux, D., see Wind, M.M. **143A** (1987) 164
Beenakker, J.J.M., see Ten Bosch, B.I.M. **143A** (1987) 261
Ben Saad, K., Fekih Romdhane, F. and Gharbi, A., A line shape induced by unlike-particle pairs in gas mixtures **143A** (1987) 210
Bobbert, P.A., see Wind, M.M. **143A** (1987) 164
Braun, E. and Mello, P.A., The correlation function for a quantum oscillator in a low-temperature heat bath **143A** (1987) 547

Calado, J.C.G., Mardolcar, U.V., Nieto de Castro, C.A., Roder, H.M. and Wakeham, W.A., The thermal conductivity of liquid argon **143A** (1987) 314
Coniglio, A., see Stauffer, D. **143A** (1987) 326
Coveney, P.V., Subdynamics in the time-dependent formalism **143A** (1987) 123
Coveney, P.V., Statistical mechanics of a large dynamical system interacting with an external time-dependent field: generalised correlation subdynamics **143A** (1987) 507
Czerwonko, J., Field-transverse spin response of degenerate normal and neutral Fermi liquids in dc magnetic fields **143A** (1987) 414

Ding, E.J. and Hauge, E.H., The dynamics approach to the wetting transition with short range forces **143A** (1987) 54
Dixon, J.M., see Tuszyński, J.A. **143A** (1987) 331

Enomoto, Y., see Tokuyama, M. **143A** (1987) 183

Fekih Romdhane, F., see Ben Saad, K. **143A** (1987) 210
Felderhof, B.U., see Mattern, K. **143A** (1987) 1
Felderhof, B.U., see Mattern, K. **143A** (1987) 21

Garcia, A.L., Van Den Broeck, C., Aertsens, M. and Serneels, R., A Monte Carlo simulation of coagulation **143A** (1987) 535
Gharbi, A., see Ben Saad, K. **143A** (1987) 210

Hauge, E.H., see Støvneng, J.A. **143A** (1987) 40
Hauge, E.H., see Ding, E.J. **143A** (1987) 54
Hauge, E.H., see Piasecki, J. **143A** (1987) 87
Hermans, L.J.F., see Van der Tol, J.J.G.M. **143A** (1987) 253

Kawasaki, K., see Tokuyama, M. **143A** (1987) 183

Kawasaki, K., see Ohta, S. **143A** (1987) 346
Kawasaki, K. and Sekimoto, K., Dynamical theory of polymer melt morphology **143A** (1987) 349
Knops, H.J.F., see Thijssen, J.M. **143A** (1987) 147
Kuščer, I., see Ten Bosch, B.I.M. **143A** (1987) 261

Maćkowiak, J., A mean-field approach to the gas–liquid transition **143A** (1987) 239
Mardolcar, U.V., see Calado, J.C.G. **143A** (1987) 314
Mattern, K. and Felderhof, B.U., Rate of diffusion-controlled reactions in a random array of spherical sinks **143A** (1987) 1
Mattern, K. and Felderhof, B.U., Self-consistent cluster expansion for wave propagation and diffusion-controlled reactions in a random medium **143A** (1987) 21
Mello, P.A., see Braun, E. **143A** (1987) 547

Nieto de Castro, C.A., see Calado, J.C.G. **143A** (1987) 314
Nolting, W. and Oleś, A.M., Accuracy of the spectral density approach for the quasiparticle excitations in the s–f model **143A** (1987) 296

Ohta, S., Ohta, T. and Kawasaki, K., ERRATUM to Physica 140A (1987) 478, Domain growth in systems with multiple-degenerate ground states **143A** (1987) 346
Ohta, T., see Ohta, S. **143A** (1987) 346
Oleś, A.M., see Nolting, W. **143A** (1987) 296
Onyszkiewicz, Z., Derivation of the generalized nonequilibrium statistical operator from the extremum of the von Neumann entropy **143A** (1987) 287

Piasecki, J. and Hauge, E.H., A new generalization of the Sullivan model for wetting transitions **143A** (1987) 87
Piasecki, J. and Szamel, G., Stochastic dynamics of a test particle in fluids with weak long-range forces **143A** (1987) 114
Plakida, N.M., Radosz, A. and Tonchev, N.S., Exactly soluble model of phase transition with cubic anisotropy **143A** (1987) 227

Radosz, A., see Plakida, N.M. **143A** (1987) 227
Roder, H.M., see Calado, J.C.G. **143A** (1987) 314
Rouhani, S. and Barton, N., Instantons in stochastic quantisation **143A** (1987) 220

Sato, I., see Shibata, F. **143A** (1987) 468
Schoolderman, A.J., see Suttorp, L.G. **143A** (1987) 494
Sekimoto, K., see Kawasaki, K. **143A** (1987) 349
Serneels, R., see Garcia, A.L. **143A** (1987) 535
Shibata, F. and Sato, I., Theory of low field resonance and relaxation I **143A** (1987) 468
Smith, E.R., Snook, I.K. and Van Megen, W., Hydrodynamic interactions in Brownian dynamics. I. Periodic boundary conditions for computer simulations **143A** (1987) 441
Snook, I.K., see Smith, E.R. **143A** (1987) 441
Stauffer, D. and Coniglio, A., Are there infinitely many independent exponents in the percolation cluster numbers? **143A** (1987) 326
Støvneng, J.A., Aukrust, T. and Hauge, E.H., Asymptotics of a free liquid–gas interface according to the non-local Van der Waals theory **143A** (1987) 40
Suttorp, L.G. and Schoolderman, A.J., Interference effects in the long-time tail of the velocity autocorrelation function for a dense one-component plasma in a magnetic field **143A** (1987) 494

Szamel, G., see Piasecki, J. **143A** (1987) 114

Ten Bosch, B.I.M., see Van der Tol, J.J.G.M. **143A** (1987) 253
Ten Bosch, B.I.M., Beenakker, J.J.M. and Kuščer, I., On slip coefficents of polyatomic gases **143A** (1987) 261
Thijssen, J.M. and Knops, H.J.F., Low temperature renormalisation study of the chiral clock model **143A** (1987) 147
Tokuyama, M., Enomoto, Y. and Kawasaki, K., Dynamics of fluctuations in Ostwald ripening. A new equation of motion for the structure function **143A** (1987) 183
Tonchev, N.S., see Plakida, N.M. **143A** (1987) 227
Tuszyński, J.A. and Dixon, J.M., A study of effective crystal fields, spin–orbit coupling and residual interactions, due to relativistic effects and configuration mixing, for Gd^{3+} in C_{3h} symmetry **143A** (1987) 331

Van Den Broeck, C., see Garcia, A.L. **143A** (1987) 535
Van der Tol, J.J.G.M., Ten Bosch, B.I.M. and Hermans, L.J.F., Magnetic field effects on a molecular flow at Knudsen numbers of order unity for Co and CH_4 **143A** (1987) 253
Van Megen, W., see Smith, E.R. **143A** (1987) 441
Vlieger, J., see Wind, M.M. **143A** (1987) 164

Wakeham, W.A., see Calado, J.C.G. **143A** (1987) 314
Wind, M.M., Bobbert, P.A., Vlieger, J. and Bedeaux, D., The polarizability of a truncated sphere on a substrate II **143A** (1987) 164

ANALYTIC SUBJECT INDEX

Angular momentum polarizations (see *Molecular flow*) **143A** (1987) 253
Ar–CF_4 mixture (see *Binary gas mixture*) **143A** (1987) 210
Argon, liquid
– The thermal conductivity of liquid argon - Calado et al. **143A** (1987) 314
Array of spherical scatterers, disordered
– Self-consistent cluster expansion for wave propagation and diffusion-controlled reactions in a random medium - Mattern and Felderhof **143A** (1987) 21
Array of spherical sinks, random
– Rate of diffusion-controlled reactions in a random array of spherical sinks - Mattern and Felderhof **143A** (1987) 1

Binary gas mixture
– A line shape induced by unlike-particle pairs in gas mixtures - Ben Saad et al. **143A** (1987) 210
Brownian motion
– Hydrodynamic interactions in Brownian dynamics. I. Periodic boundary conditions for computer simulations - Smith et al. **143A** (1987) 441

CH_4 (see *Molecular flow*) **143A** (1987) 253
Chiral clock model
– Low temperature renormalisation study of the— - Thijssen and Knops **143A** (1987) 147
Cluster expansion (see *Array of spherical scatterers, disordered*) **143A** (1987) 21
Cluster size distribution
– Are there infinitely many independent exponents in the percolation cluster numbers? - Stauffer and Coniglio **143A** (1987) 326
CO (see *Molecular flow*) **143A** (1987) 253
Coagulation
– A Monte Carlo simulation of— - Garcia et al. **143A** (1987) 535
Configuration mixing (see *Gd^{3+} in lanthanum ethylsulphate*) **143A** (1987) 331
Copolymer melts
– Dynamical theory of polymer melt morphology - Kawasaki and Sekimoto **143A** (1987) 349
Critical exponents (see *Cluster size distribution*) **143A** (1987) 326
Cubic anisotropy
– Exactly soluble model of phase transition with— - Plakida et al. **143A** (1987) 227

dc magnetic fields (see *Spin response, field-transverse*) **143A** (1987) 414
Density expansion (see *Diffusion-controlled reactions*) **143A** (1987) 1
Density fluctuations (see *Test particle in fluid*) **143A** (1987) 114
Density matrix (see *Dynamical systems*) **143A** (1987) 507
Density profiles (see *Wetting transitions*) **143A** (1987) 87
Diffusion-controlled reactions

– Rate of—in a random array of spherical sinks - Mattern and Felderhof **143A** (1987) 1
– Self-consistent cluster expansion for wave propagation and—in a random medium - Mattern and Felderhof **143A** (1987) 21
Dipole–induced-dipole approximation
– A line shape induced by unlike-particle pairs in gas mixtures - Ben Saad et al. **143A** (1987) 210
Dynamical systems
– Statistical mechanics of a large dynamical system interacting with an external time-dependent field: generalised correlation subdynamics - Coveney **143A** (1987) 507

Erratum
– — to Physica 140A (1987) 478, Domain growth in systems with multiple-degenerate ground states - Ohta et al. **143A** (1987) 346
Evaporation–condensation mechanism (see *Ostwald ripening*) **143A** (1987) 183
Evolution equations (see *Dynamical systems*) **143A** (1987) 507

Fermi liquids
– Field-transverse spin response of degenerate normal and neutral—in dc magnetic fields - Czerwonko **143A** (1987) 414
Fluctuations (see *Ostwald ripening*) **143A** (1987) 183

Gas–liquid transition
– A mean-field approach to the— - Maćkowiak **143A** (1987) 239
Gaussian–Markovian proces (see *Stochastic processes*) **143A** (1987) 468
Gd^{3+} in lanthanum ethylsulphate
– A study of effective crystal fields, spin–orbit coupling and residual interactions, due to relativistic effects and configuration mixing, for Gd^{3+} in C_{3h} symmetry - Tuszyński and Dixon **143A** (1987) 331
Generalized nonequilibrium statistical operator
– Derivation of the—from the extremum of the von Neumann entropy - Onyszkiewicz **143A** (1987) 287
Gold on sapphire (see *Polarizability of a sphere on a substrate*) **143A** (1987) 164
Green–Kubo formulas (see *Von Neumann entropy*) **143A** (1987) 287

Heat bath (see *Oscillator, quantum*) **143A** (1987) 547
Hydrodynamic interactions (see *Brownian motion*) **143A** (1987) 441

Instantons
– —in stochastic quantisation - Rouhani and Barton **143A** (1987) 220
Interface, liquid–gas
– Asymptotics of a free liquid–gas interface according to the non-local Van der Waals theory - Støvneng et al. **143A** (1987) 40
Interfacial motion (see *Polymer blends*) **143A** (1987) 349
Irreversible processes (see *Subdynamics*) **143A** (1987) 123

Landau parameters (see *Fermi liquids*) **143A** (1987) 414
Long time tails (see *Plasma, magnetized*) **143A** (1987) 494

Magnetic field effects (see *Molecular flow*) **143A** (1987) 253
Many-body system (see *Subdynamics*) **143A** (1987) 123
Markoff proces (see *Coagulation*) **143A** (1987) 535
Markoff proces (see *Stochastic processes*) **143A** (1987) 468

Migdal–Kadanoff renormalization (see *Chiral clock model*) **143A** (1987) 147
Mobility tensor (see *Brownian motion*) **143A** (1987) 441
Mode-coupling theory (see *Plasma, magnetized*) **143A** (1987) 494
Molecular flow
– Magnetic field effects on a—at Knudsen numbers of order unity for Co and CH_4 - van der Tol et al. **143A** (1987) 253
Momentum autocorrelation function (see *Oscillator, quantum*) **143A** (1987) 547
Monomer density (see *Polymer blends*) **143A** (1987) 349
Monte Carlo simulation (see *Coagulation*) **143A** (1987) 535
Morphology dynamics
– Dynamical theory of polymer melt morphology - Kawasaki and Sekimoto **143A** (1987) 349
Muon–spin depolarization (see *Resonance, low field*) **143A** (1987) 468

Oscillator, quantum
– The correlation function for a quantum oscillator in a low-temperature heat bath - Braun and Mello **143A** (1987) 547
Ostwald ripening
– Dynamics of fluctuations in—. A new equation of motion for the structure function - Tokuyama et al. **143A** (1987) 183

Percolation
– Are there infinitely many independent exponents in the—cluster numbers? - Stauffer and Coniglio **143A** (1987) 326
Periodic boundary conditions (see *Brownian motion*) **143A** (1987) 441
Phase diagram (see *Chiral clock model*) **143A** (1987) 147
Phase transition (see *Cubic anisotropy*) **143A** (1987) 227
Plasma, magnetized
– Interference effects in the long-time tail of the velocity autocorrelation function for a dense one-component plasma in a magnetic field - Suttorp and Schoolderman **143A** (1987) 494
Polarizability of a sphere on a substrate
– The polarizability of a truncated sphere on a substrate II - Wind et al. **143A** (1987) 164
Polyatomic gases
– On slip coefficents of— - ten Bosch et al. **143A** (1987) 261
Polymer blends
– Dynamical theory of polymer melt morphology - Kawasaki and Sekimoto **143A** (1987) 349

Quasiparticles (see *s–f model*) **143A** (1987) 296

Raman depolarization (see *Binary gas mixture*) **143A** (1987) 210
Rate coefficient (see *Diffusion-controlled reactions*) **143A** (1987) 1
Rayleigh depolarization (see *Binary gas mixture*) **143A** (1987) 210
Reptation model (see *Morphology dynamics*) **143A** (1987) 349
Resonance, low field
– Theory of low field resonance and relaxation I - Shibata and Sato **143A** (1987) 468

s–f model
– Accuracy of the spectral density approach for the quasiparticle excitations in the— - Nolting and Oleś **143A** (1987) 296
Slip coefficients
– On slip coefficents of polyatomic gases - ten Bosch et al. **143A** (1987) 261
Spectral density approach (see *s–f model*) **143A** (1987) 296

Spherical model (see *Cubic anisotropy*) **143A** (1987) 227
Spin correlation functions (see *Spin response, field-transverse*) **143A** (1987) 414
Spin response, field-transverse
– Field-transverse spin response of degenerate normal and neutral Fermi liquids in dc magnetic fields - Czerwonko **143A** (1987) 414
Stochastic dynamics (see *Test particle in fluid*) **143A** (1987) 114
Stochastic processes
– Theory of low field resonance and relaxation I - Shibata and Sato **143A** (1987) 468
Stochastic quantization
– Instantons in stochastic quantisation - Rouhani and Barton **143A** (1987) 220
Structure function (see *Ostwald ripening*) **143A** (1987) 183
Subdynamics
– —in the time-dependent formalism - Coveney **143A** (1987) 123
Subdynamics (see *Dynamical systems*) **143A** (1987) 507
Sullivan model
– A new generalization of the—for wetting transitions - Piasecki and Hauge **143A** (1987) 87
Sullivan model (see *Wetting transition*) **143A** (1987) 54
Surface free energy (see *Interface, liquid–gas*) **143A** (1987) 40

Test particle in fluid
– Stochastic dynamics of a—s with weak long-range forces - Piasecki and Szamel **143A** (1987) 114
Thermal conductivity (see *Argon, liquid*) **143A** (1987) 314
Three-dimensional model (see *Cubic anisotropy*) **143A** (1987) 227
Transient hot-wire technique (see *Argon, liquid*) **143A** (1987) 314
Transmittance (see *Polarizability of a sphere on a substrate*) **143A** (1987) 164
Tricritical point (see *Wetting transition*) **143A** (1987) 54

Van der Waals theory
– A mean-field approach to the gas–liquid transition - Maćkowiak **143A** (1987) 239
Van der Waals theory, non-local (see *Wetting transition*) **143A** (1987) 40
Van der Waals theory (see *Wetting transition*) **143A** (1987) 54
Van der Waals theory (see *Wetting transitions*) **143A** (1987) 87
Velocity autocorrelation function (see *Plasma, magnetized*) **143A** (1987) 494
Von Neumann entropy
– Derivation of the generalized nonequilibrium statistical operator from the extremum of the— - Onyszkiewicz **143A** (1987) 287

Wave propagation (see *Array of spherical scatterers, disordered*) **143A** (1987) 21
Wetting transition
– Asymptotics of a free liquid–gas interface according to the non-local Van der Waals theory - Støvneng et al. **143A** (1987) 40
– The dynamics approach to the—with short range forces - Ding and Hauge **143A** (1987) 54
Wetting transitions
– A new generalization of the Sullivan model for— - Piasecki and Hauge **143A** (1987) 87

Zero-field splitting (see Gd^{3+} *in lanthanum ethylsulphate*) **143A** (1987) 331